

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-26. (Cancelled)

27. (Currently Amended) A camera for shape measuring or object extracting, ~~having comprising:~~

light-emitting means of irradiating an object with projected light having ~~a specified different radiation pattern~~patterns;

image-picking up means ~~for of~~ image-picking up reflected light of the light-emitting means from the object to obtain ~~a depth an image using light intensity of an image picked up,~~ comprising:

depth distance calculating means of calculating depth distances of respective pixels on the image by using light intensity of the respective pixels;

recording media for recording the image correlated with the calculated depth distances of the respective pixels on the image picked up, ~~the depth distances being calculated based on two fields of the image, which have been taken by using different radiation patterns;~~

a display panel for displaying the recorded image;

object extracting means of extracting ~~(1) an object which exists less than a depth distance denoted by a user, or (2) an the object which exists within a range of based on~~ a depth distance of the pixel denoted by the user on the displayed image, by using the recorded depth distances.

28. (Currently Amended) A camera according to claim 27, ~~further comprising a display panel for displaying the extracted object,~~ wherein a portion taken for the background or foreground with respect to the displayed object by a malfunction in an extracting process is

denoted by the user, whereby the erroneous background or foreground extracting operation is corrected.

29-32. (Cancelled)

33. (Withdrawn) A camera for shape measuring or object extracting, comprising light-emitting means for irradiating an object with projected light having a specified radiation pattern, for image-picking up reflected light of said light-emitting means from said object to obtain a depth image using light intensity of the image picked up,

said camera serves dually as a video camera capable of picking up a motion image to record it in a recording medium while said light-emitting means does not emit any light, and

an index signal is added, to image data picked up when said light-emitting means emits light, and a depth image is calculated using only a specified image to which said index signal has been added.

34. (Cancelled)

35. (Currently Amended) A camera according to claim 27, wherein the object extracting means extracts a color image for ~~the object which exists less than the depth distance denoted by the user, or the object which exists within the range of the depth distance~~ of the pixel denoted by the user.

36. (New) The camera according to claim 27, wherein the object extracting means, when the user denotes a plurality of pixels, extracts the object which exists within the range of the greatest depth distance of the depth distances of the pixels denoted by the user but out of the range of the least depth distance of the depth distances of the pixels denoted by the user.

37. (New) The camera according to claim 27, the depth distances being calculated based on two fields of the image, which have been taken by using different radiation patterns, each of the two fields having a respective field time period and each radiation pattern alternately emitting light for each field time period.